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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/653,826	09/03/2003	Siaw-Kang Lai	SE0033	4146
29393	7590 09/27/2006		EXAMINER	
ESCHWEILER & ASSOCIATES, LLC			MAI, TAN V	
NATIONAL CITY BANK BUILDING 629 EUCLID AVE., SUITE 1210			ART UNIT	PAPER NUMBER
CLEVELAN	D, OH 44114	2193		

DATE MAILED: 09/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/653,826	LAI ET AL.
Office Action Summary	Examiner	Art Unit
	Tan V. Mai	2193
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 03 S This action is FINAL. Since this application is in condition for alloward closed in accordance with the practice under the condition of the con	s action is non-final. ance except for formal matters, pro	
·	ex parto quayro, 1000 o.b. 11, 1	00 0.0. 210.
Disposition of Claims		
4) ☐ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	iwn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat brity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/3/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "second rotator" in claim 11 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

It is noted that the specification, page 52, lines 11 & 23, discloses "second rotator" 1310; however, Fig. 13 does not show the feature.

2. Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per independent claim 1, the claim language is vague and indefinite. For instance, although the preamble of independent claim 1 claim a "high speed add rotate add system"; the claimed result is a "summation of the first, second and third inputs". Is the result equivalent to add shift add as result of circuit in Fig. 12? Clarification is requested.

As per dependent claim 11, the drawings do not show the "second rotator".

As per dependent claim 14 and 20, the periods "." at the end are missing.

As per independent claim 21, the claim language is vague and indefinite. For instance, although the preamble of independent claim 21 claim a "method of performing a fast **add rotate add** operation", the claims fails to recite the necessary steps to

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perform the recited function(s) nor are there any recitation describing how such a step is actually provided in the method. Sufficient detail step(s) must be recited to adequately describe and constitute the proposed method. The claim is incomplete in that it recites only a portion of the methodology required for the method to become operational, i.e., it omits essential elements and/or steps. See MPEP 2172.01. It is noted that final step "adjusting the carry" is NOT the result of "add rotate add operation".

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3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 21-22 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims recite a method for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

Since there is no physical transform to establish a practical application, a useful, concrete and tangible result appear to be lacking. Therefore, claims 21-22 are clearly directed to a non-statutory process.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references are art of interest.

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6. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the apparatus / method for performing add rotate add operations using an equivalent single operation as recited in independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner